

FIG.1

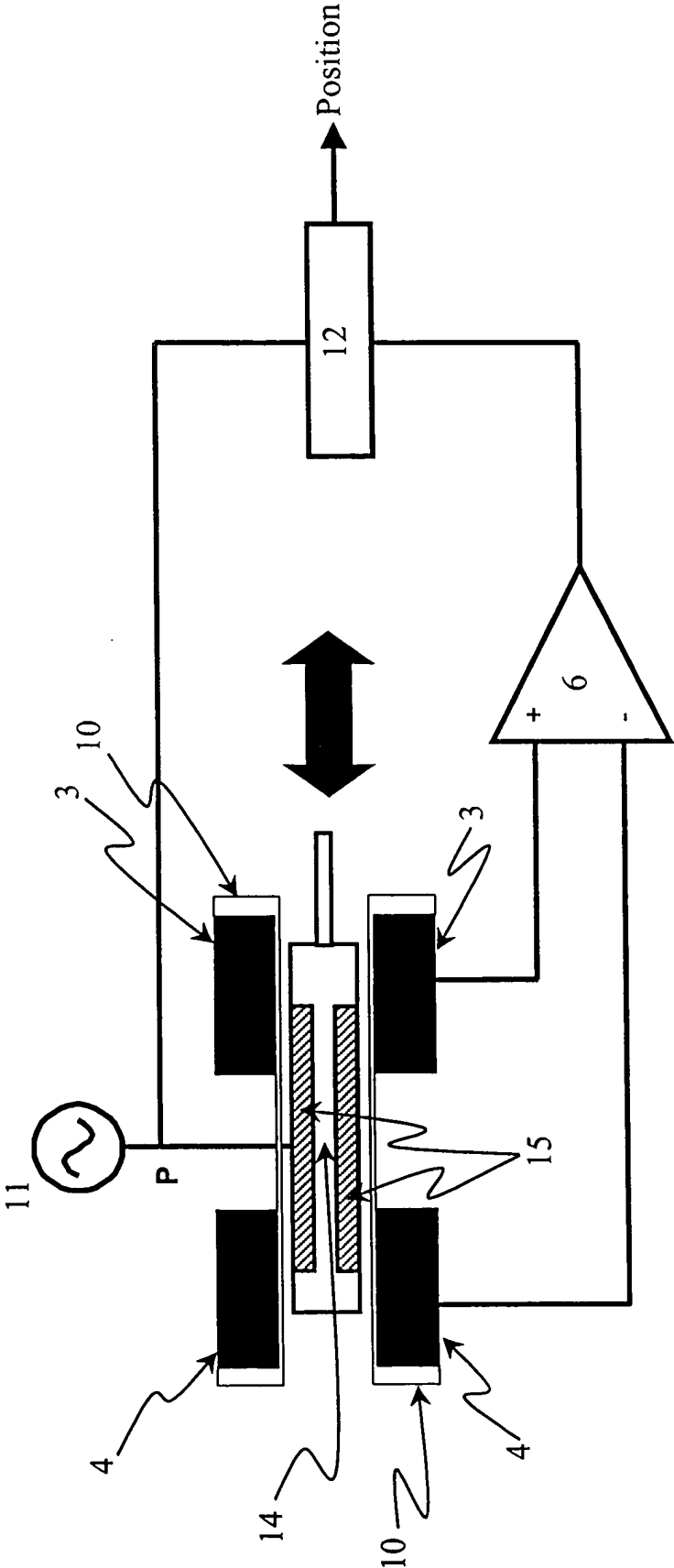


FIG.2

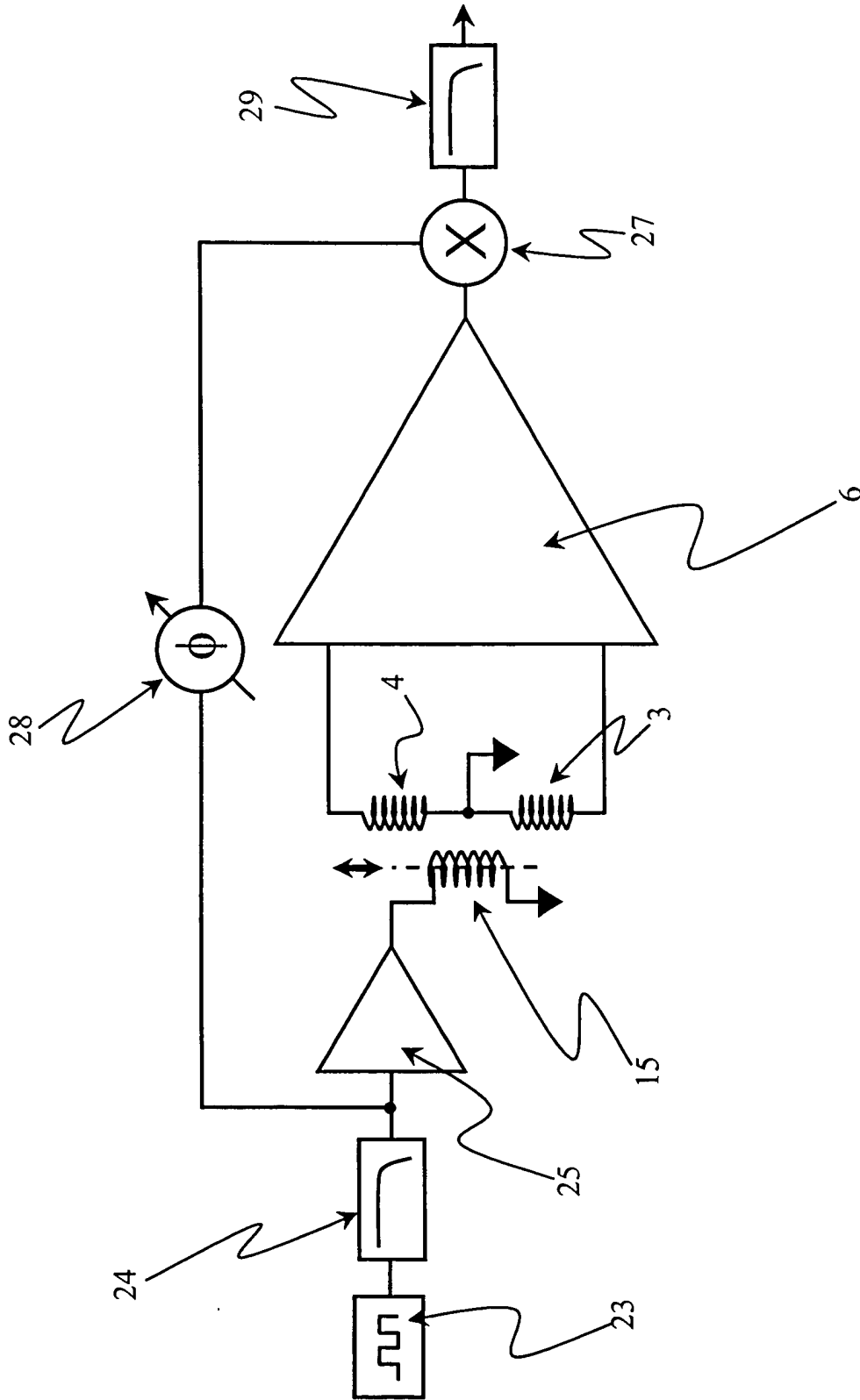


FIG. 3

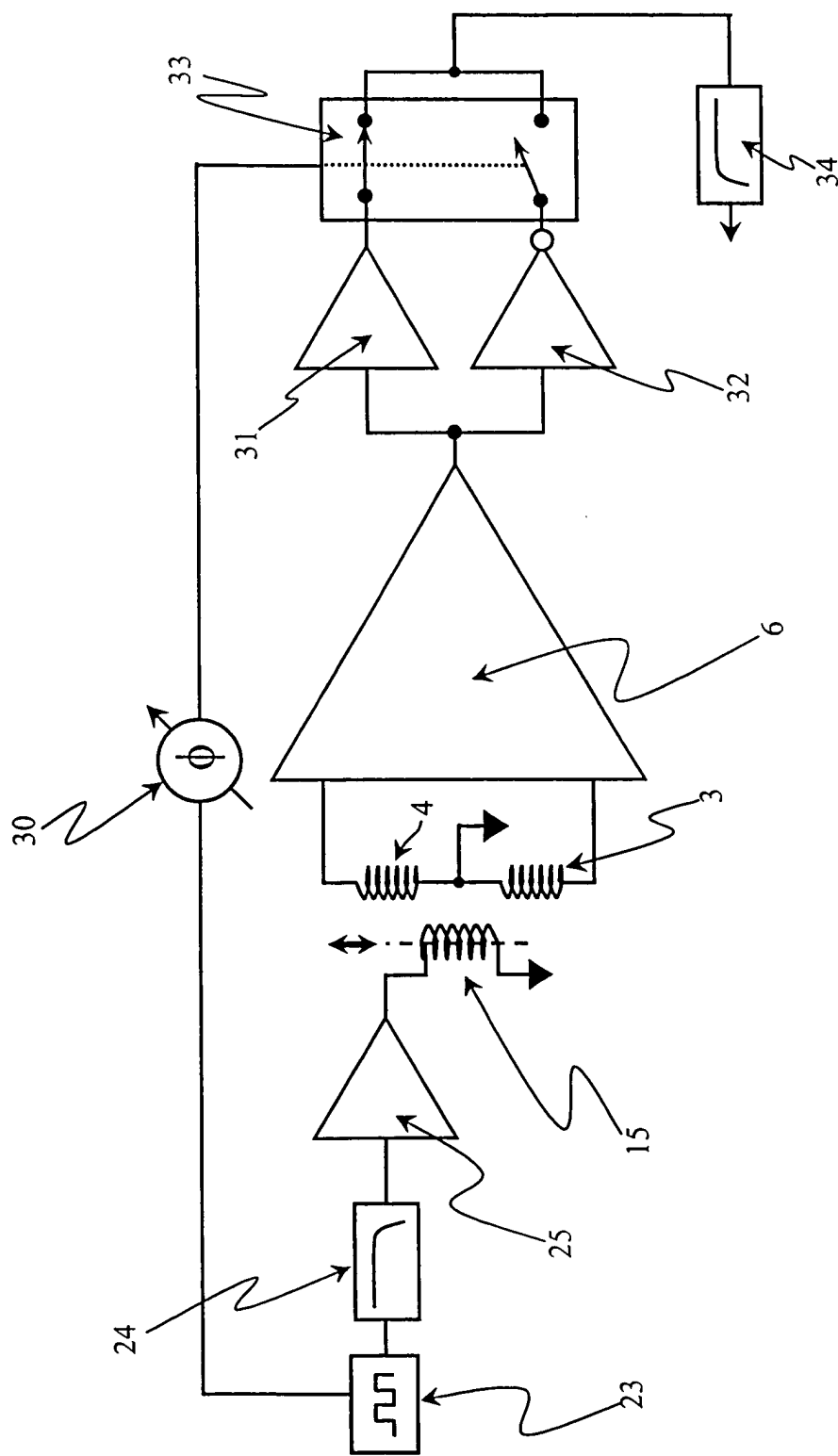


FIG. 4

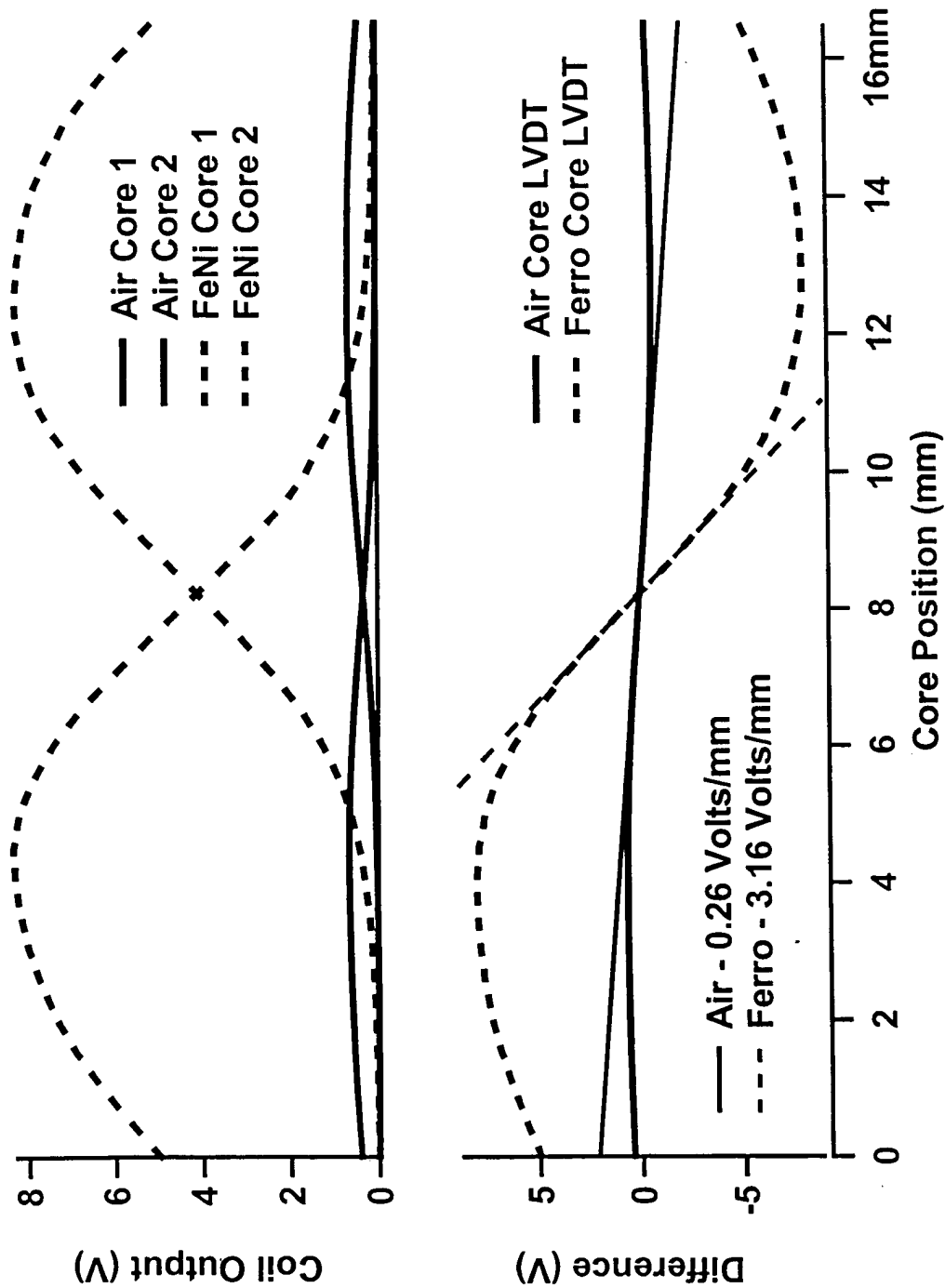


FIG.5

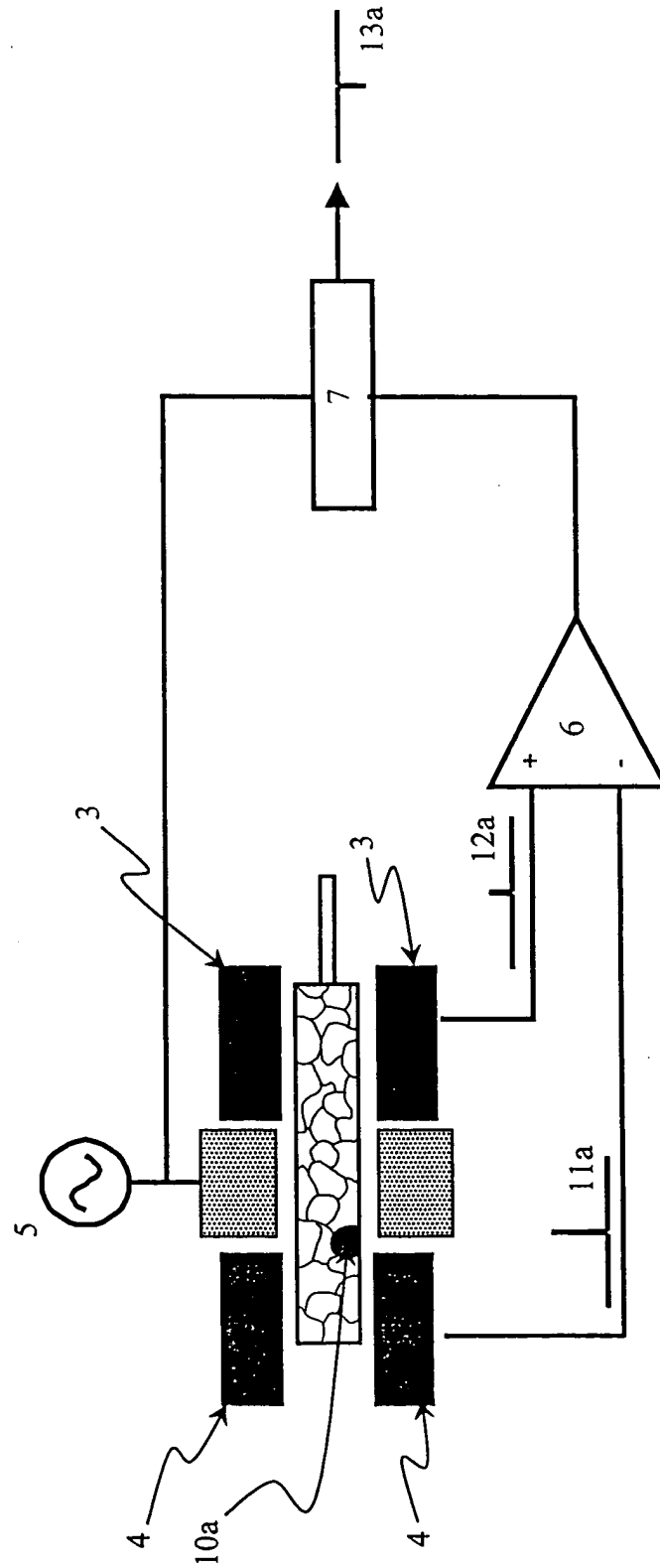


FIG. 6

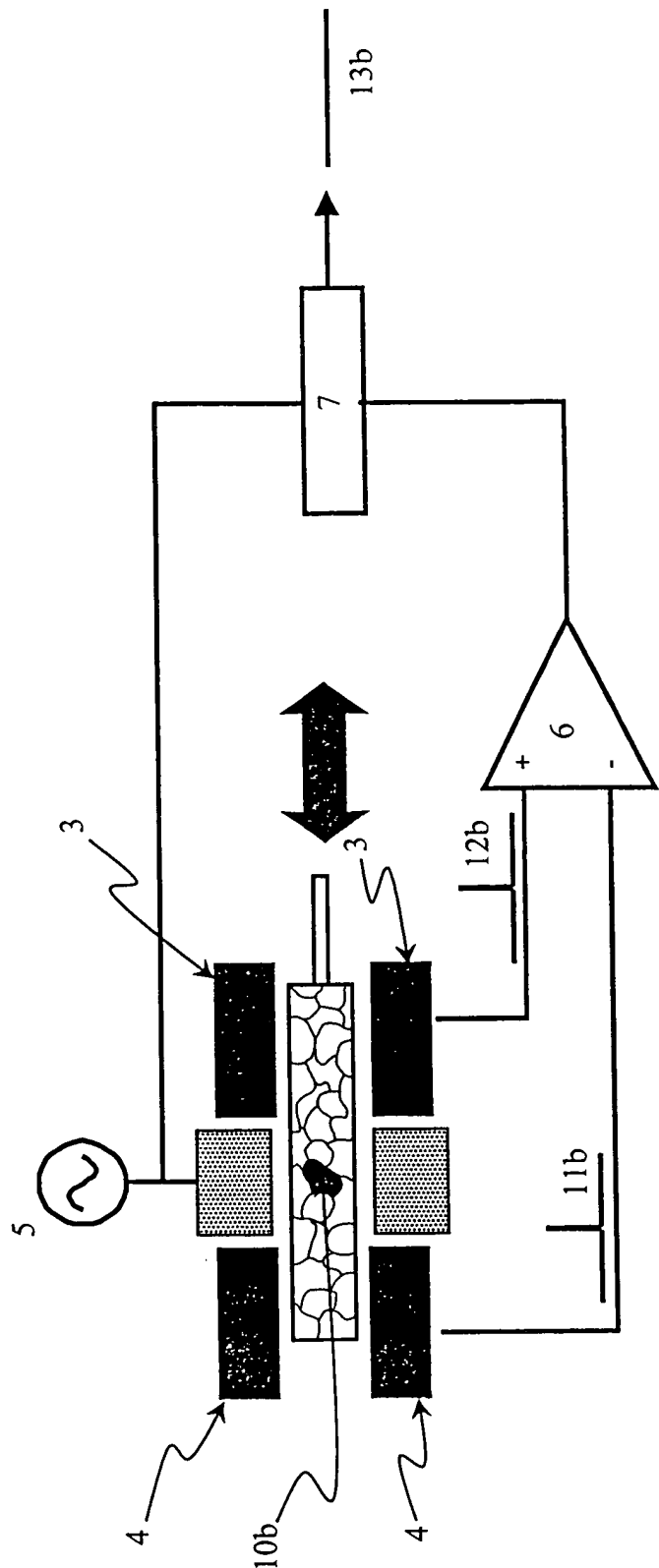


FIG. 7

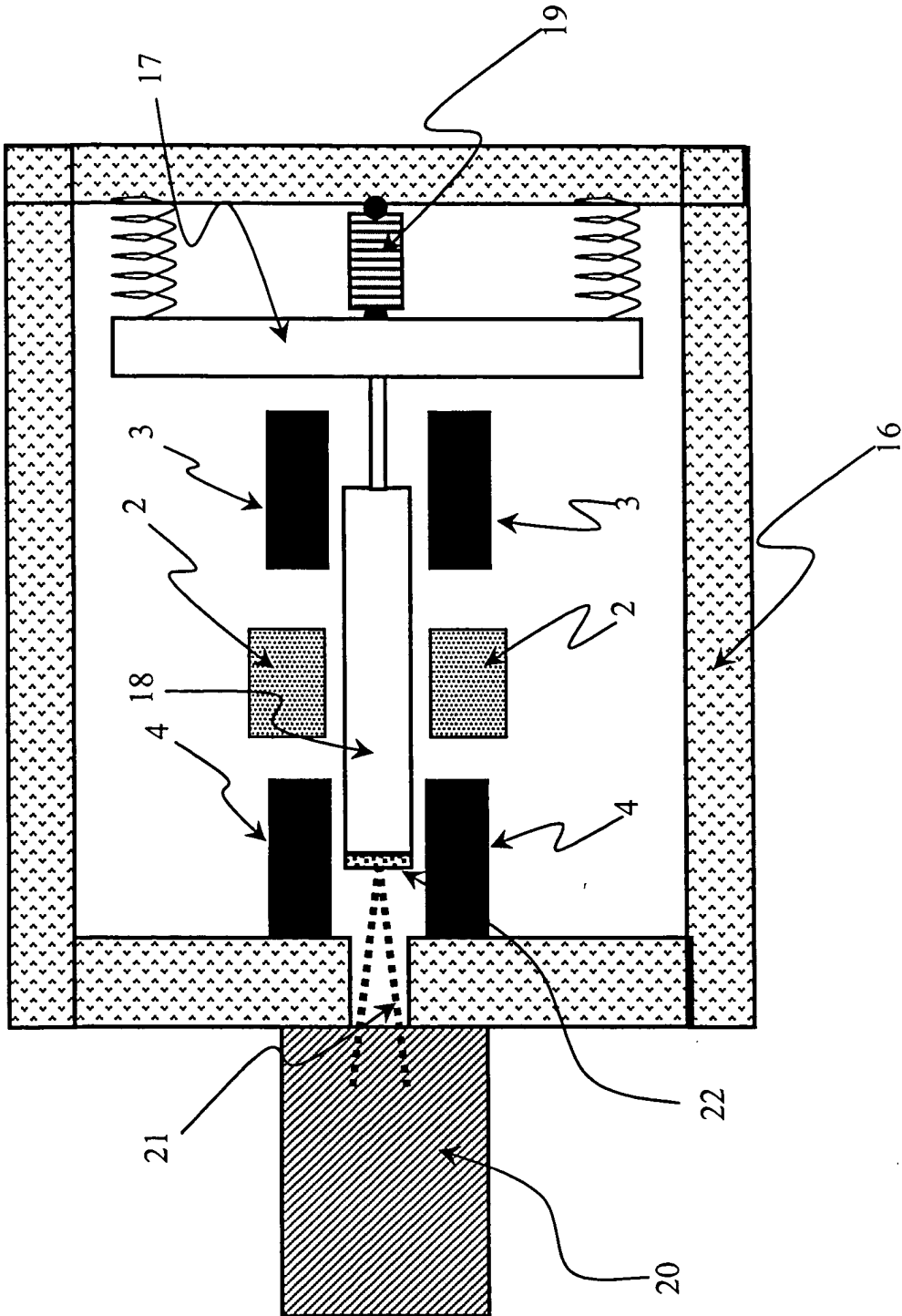


FIG. 8

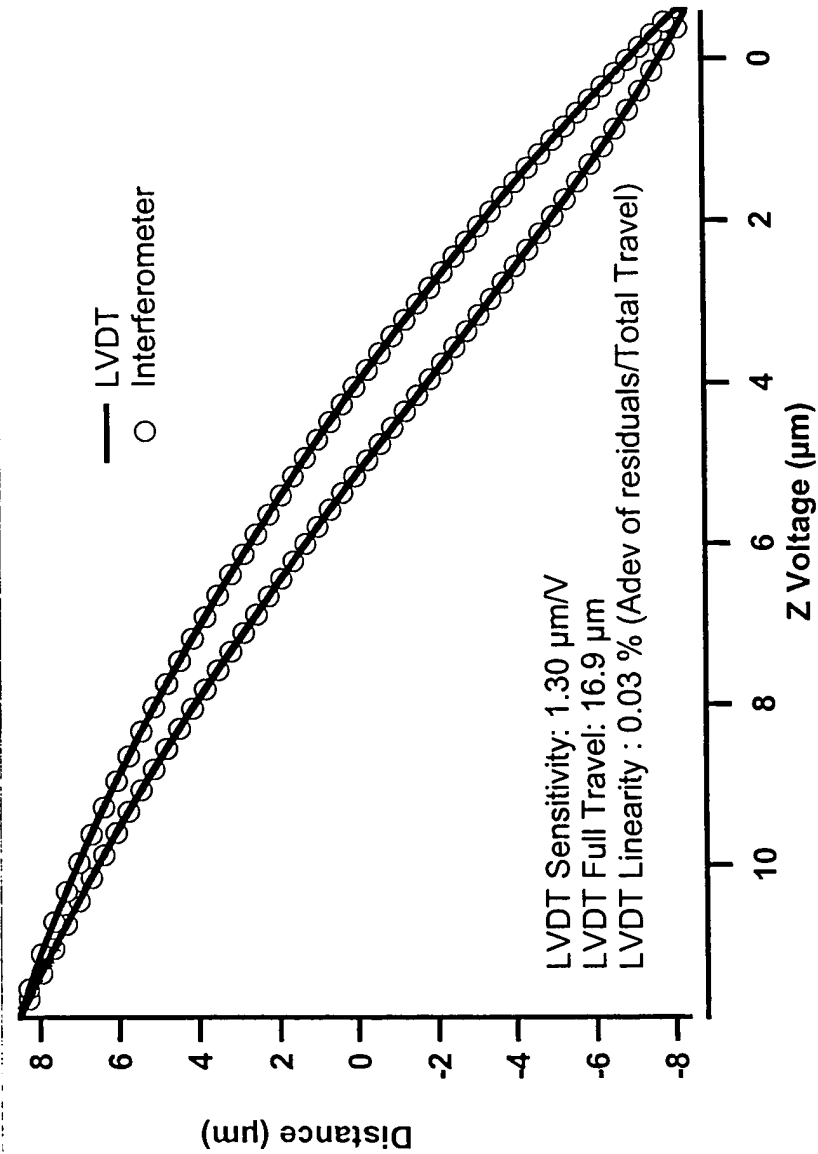


FIG. 9

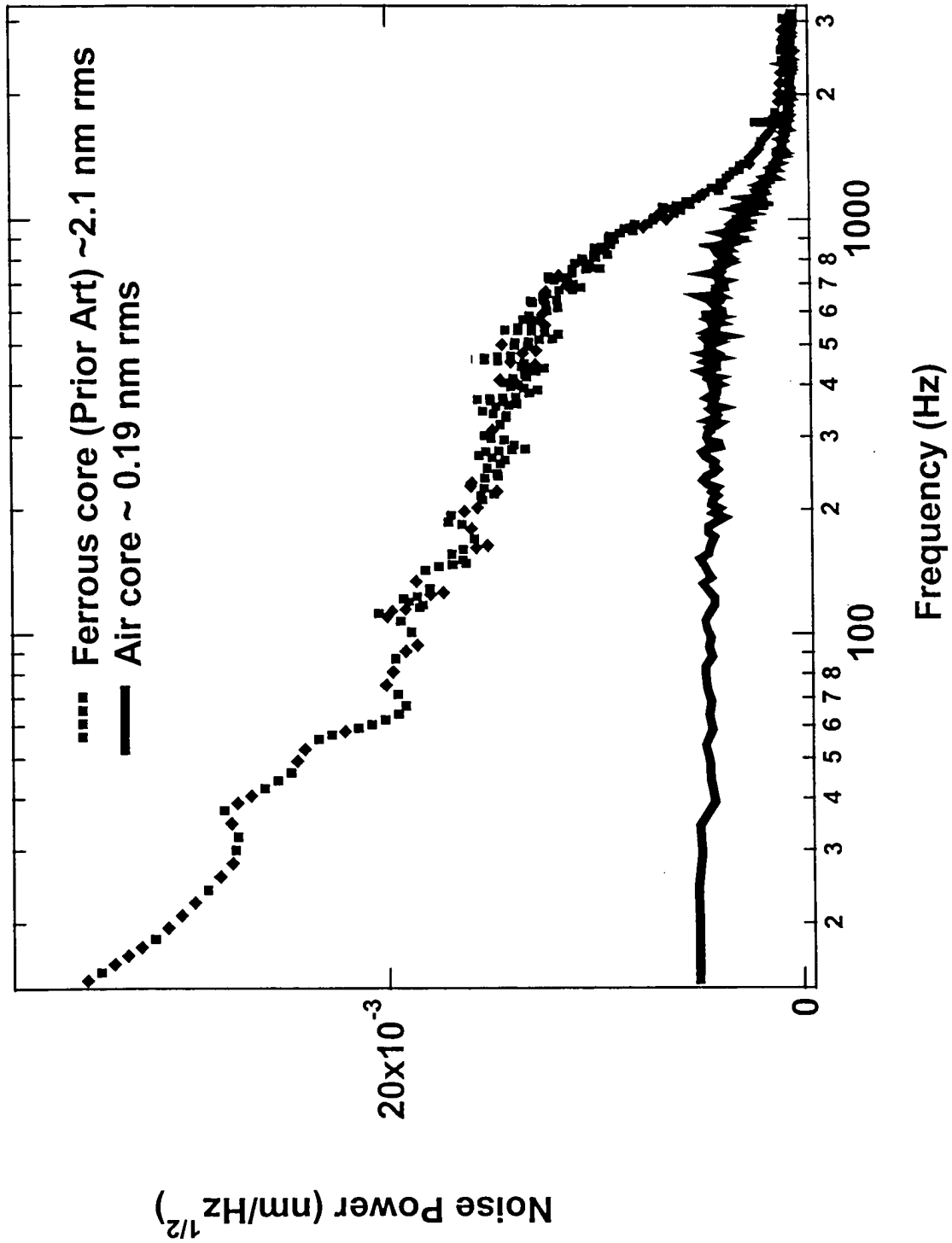


FIG. 10

Noise vs. Time for ferromagnetic and non-ferromagnetic cores

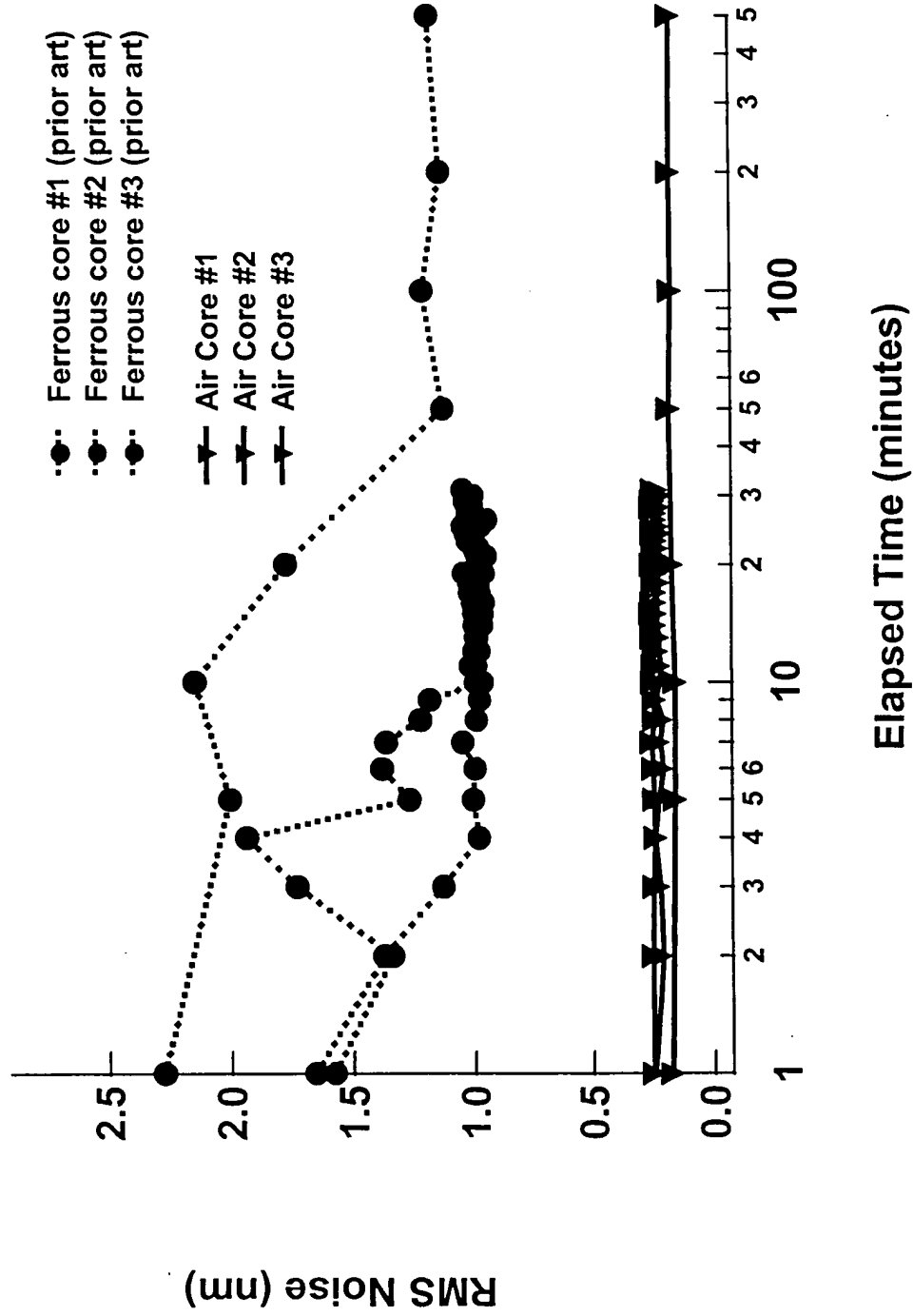


FIG.11

Positional Noise vs. Primary Coil Drive Amplitude

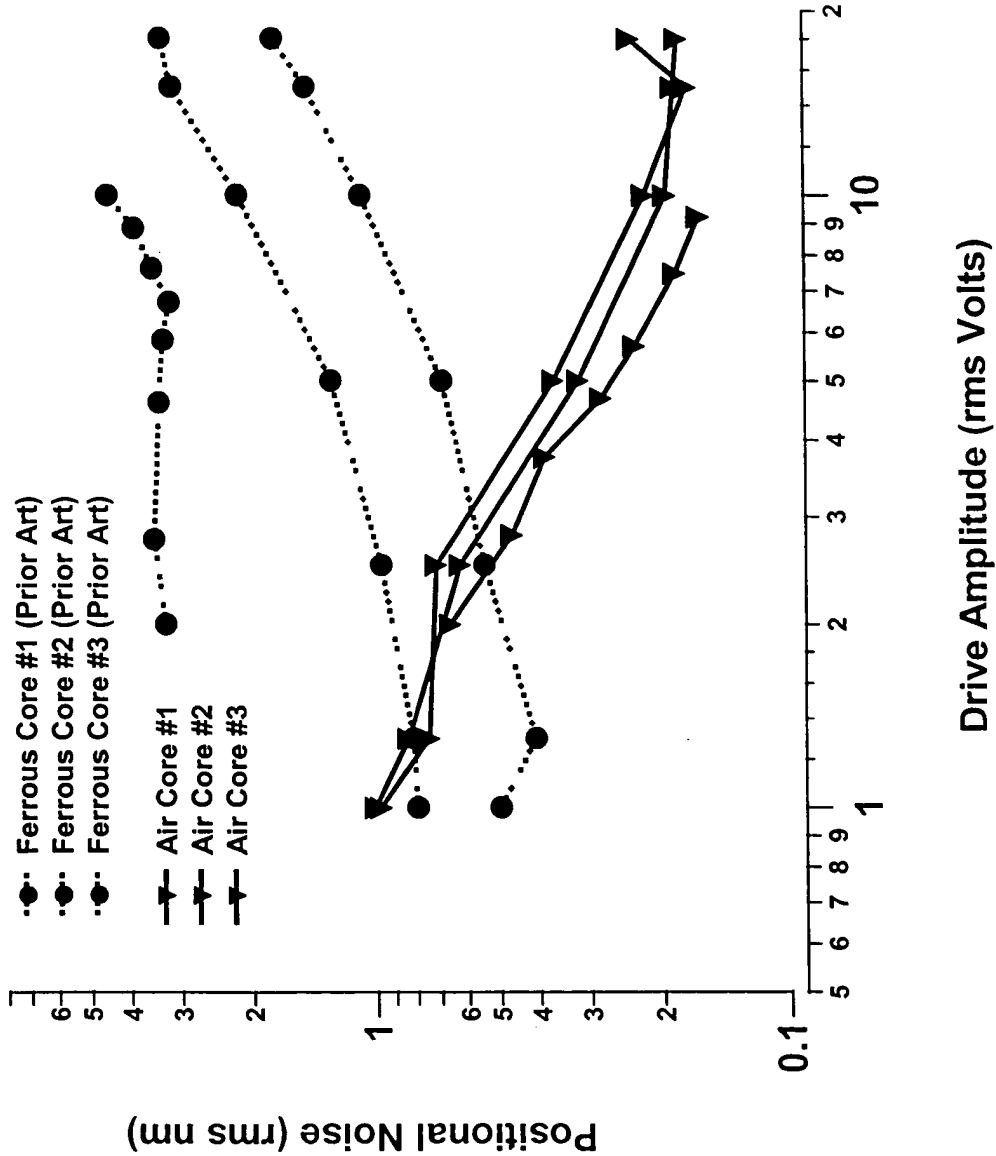
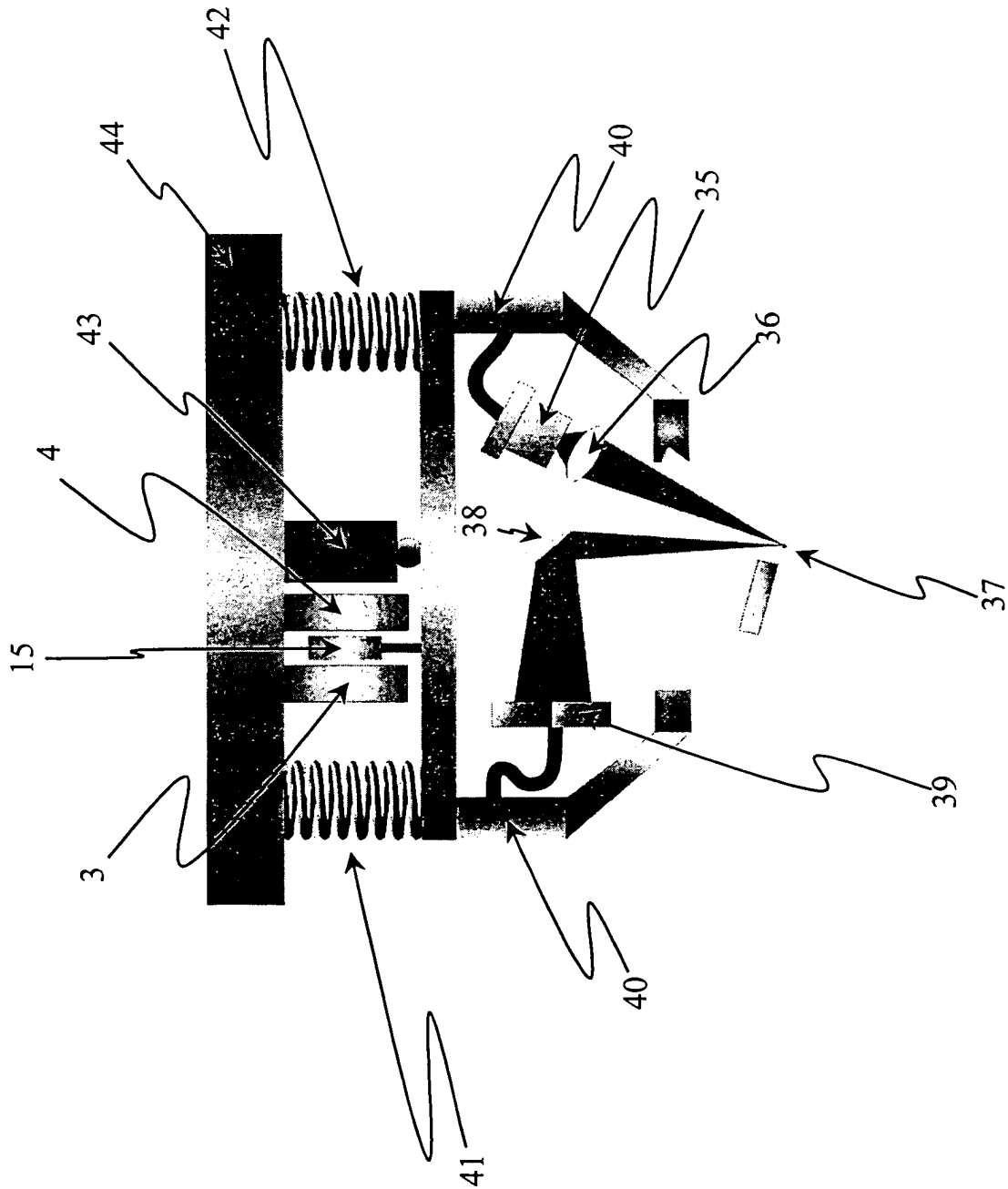


FIG. 12



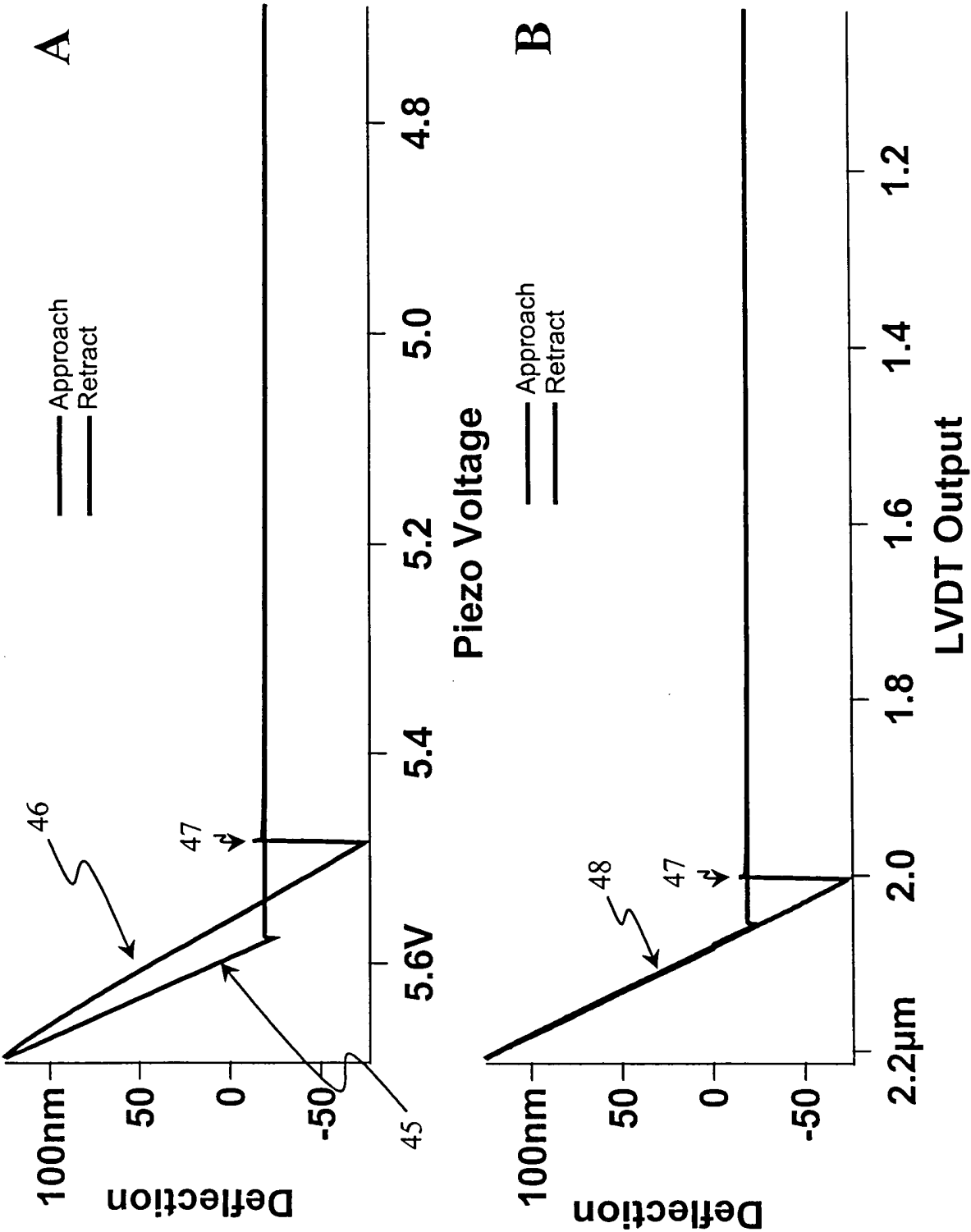


FIG. 14

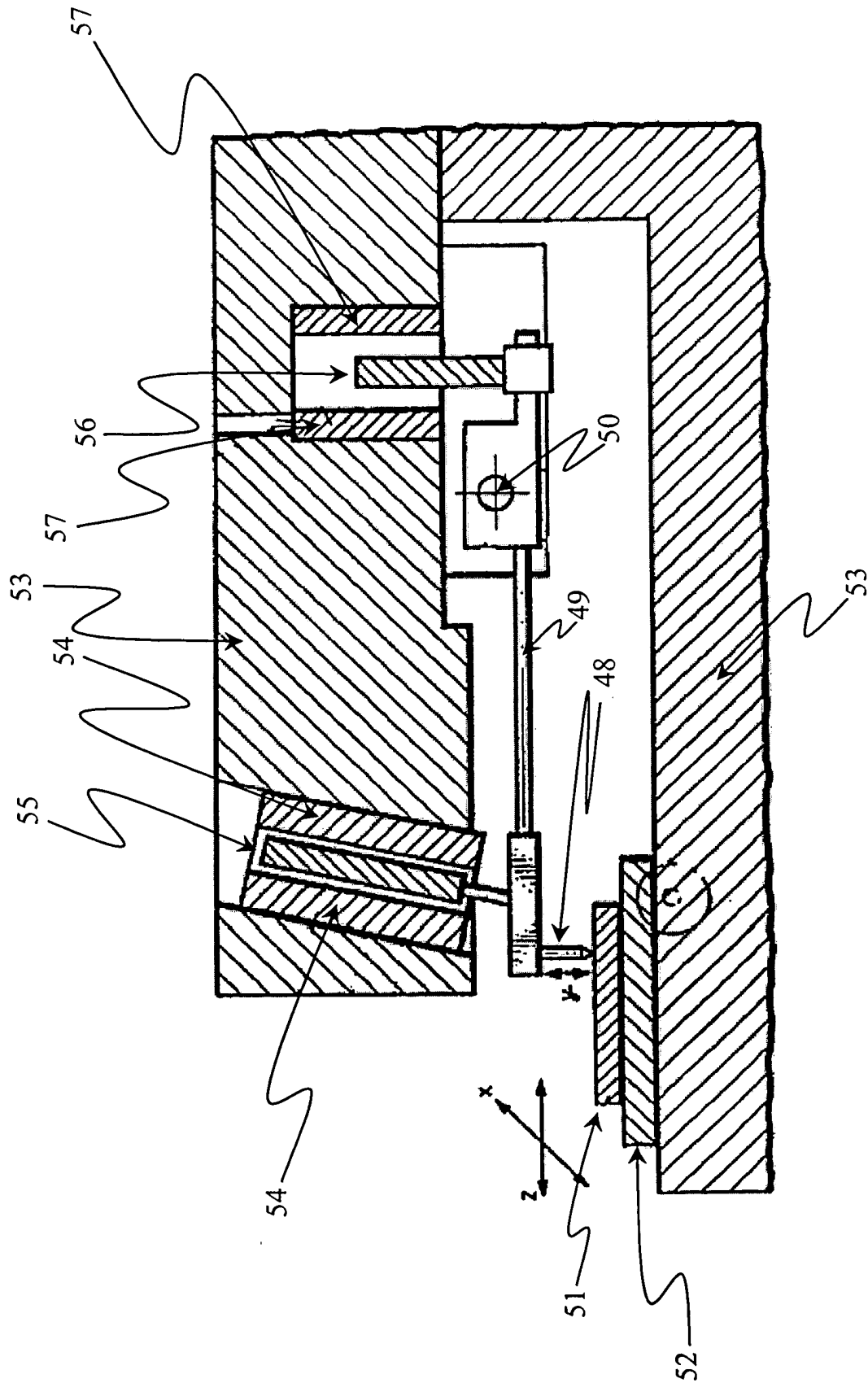


FIG. 15

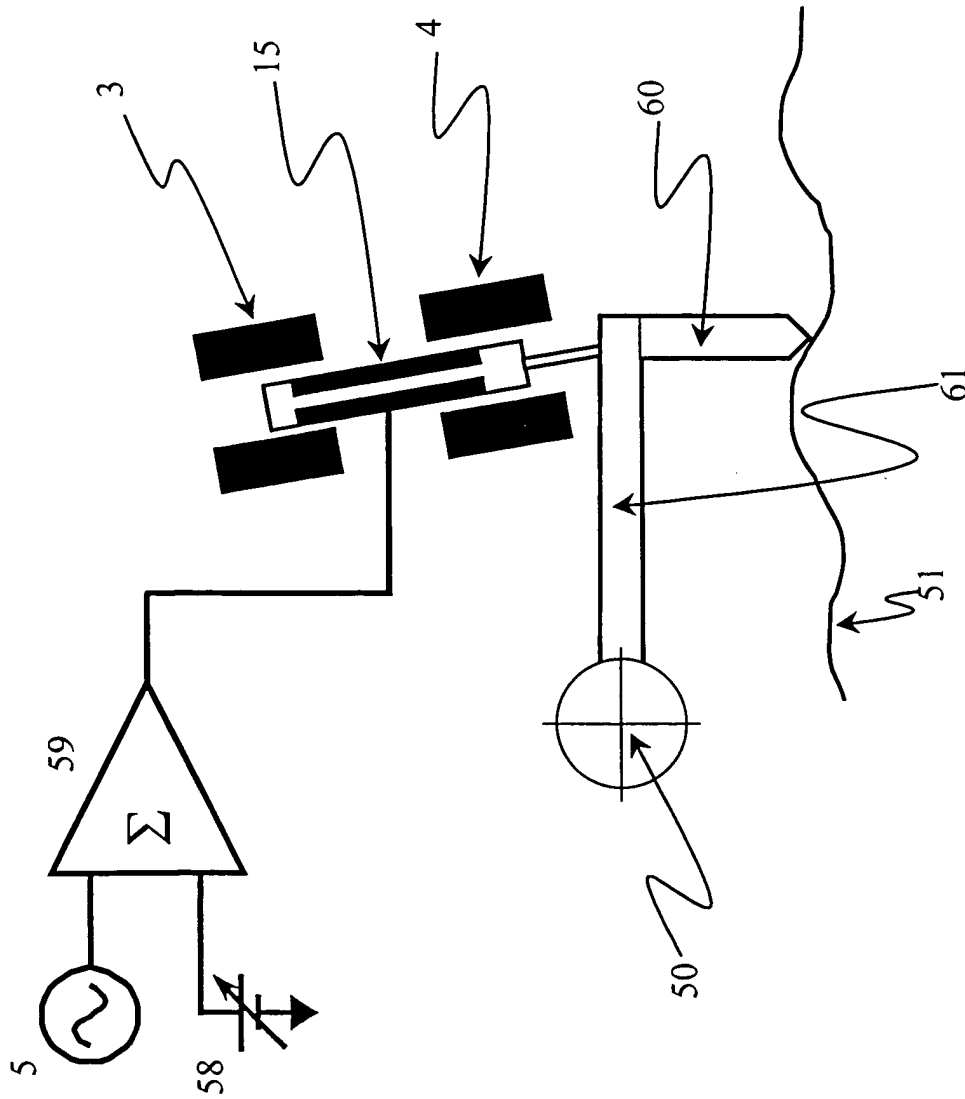


FIG. 16

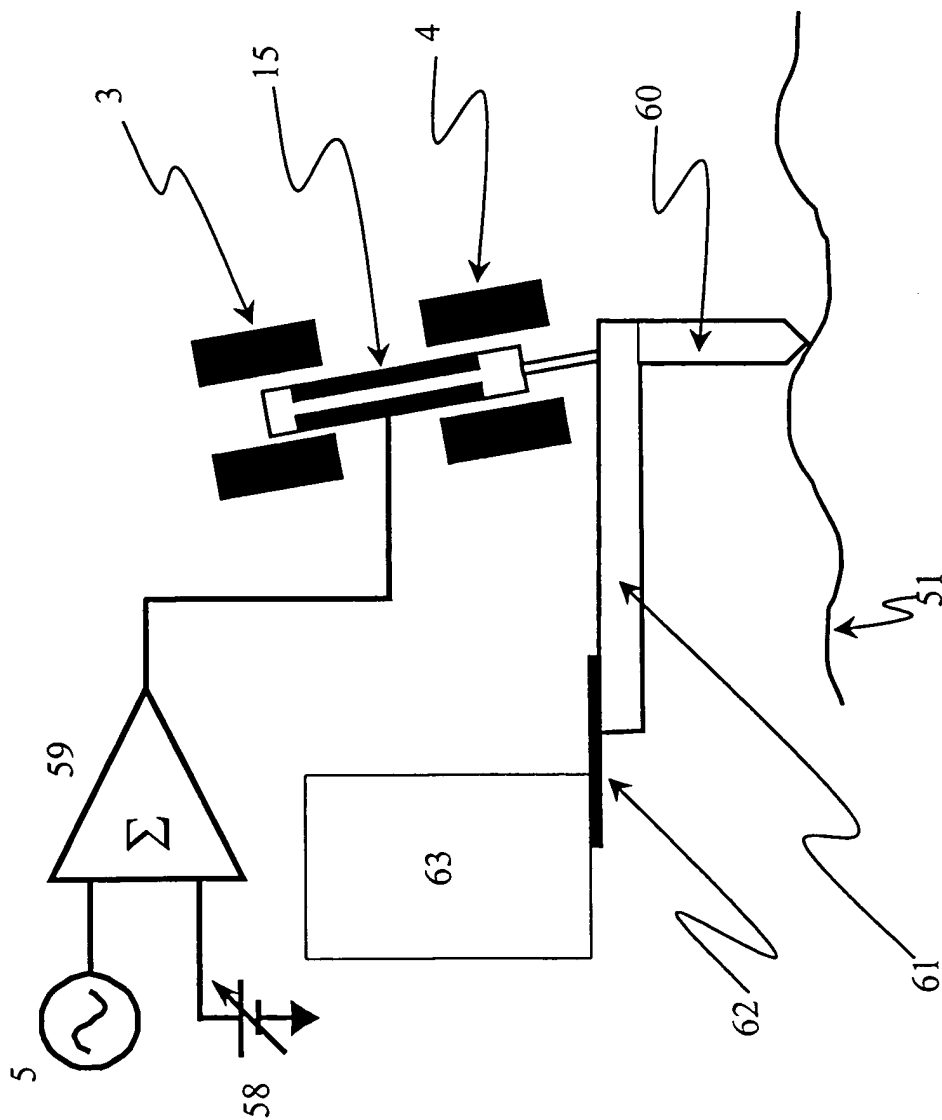
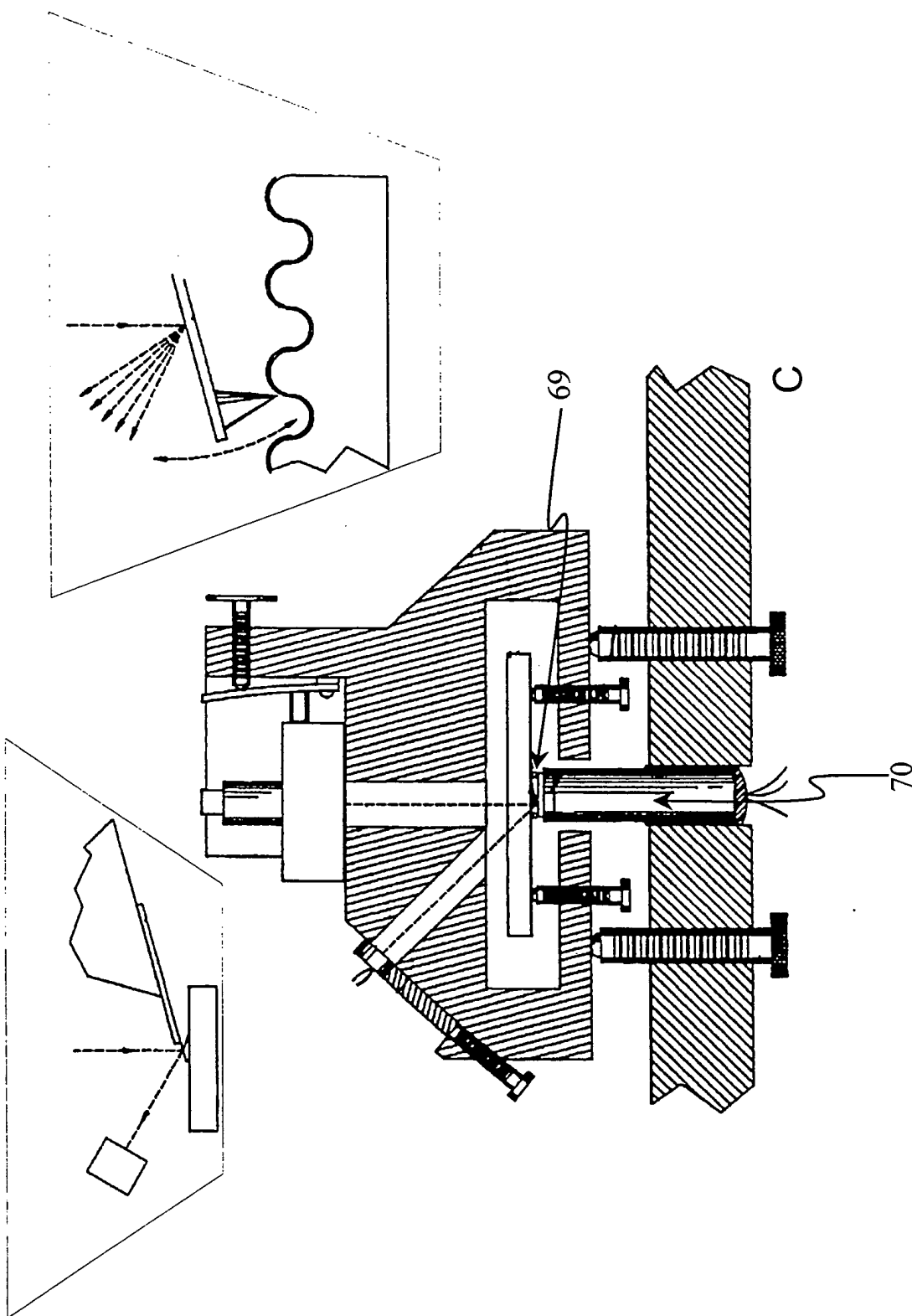


FIG.17



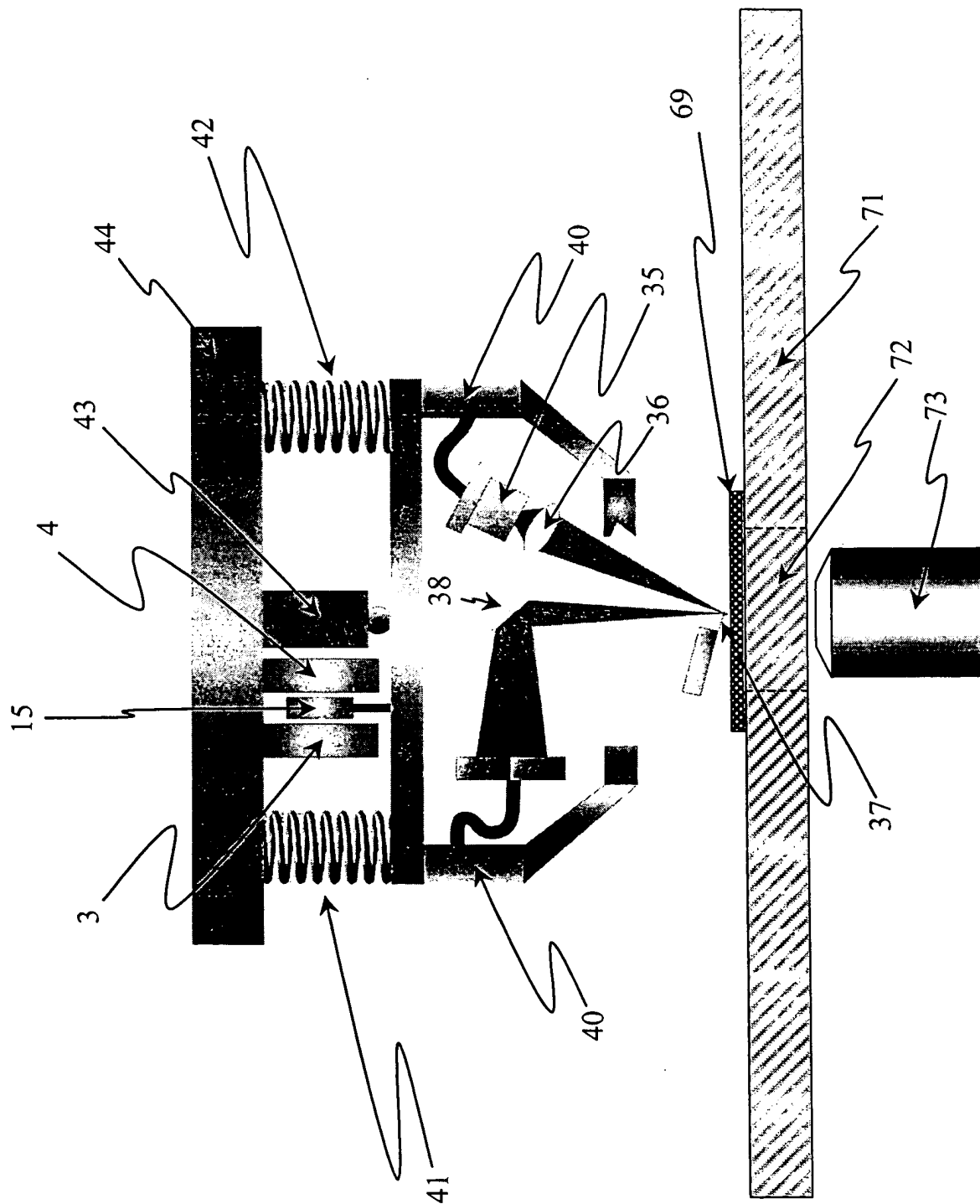


FIG. 19

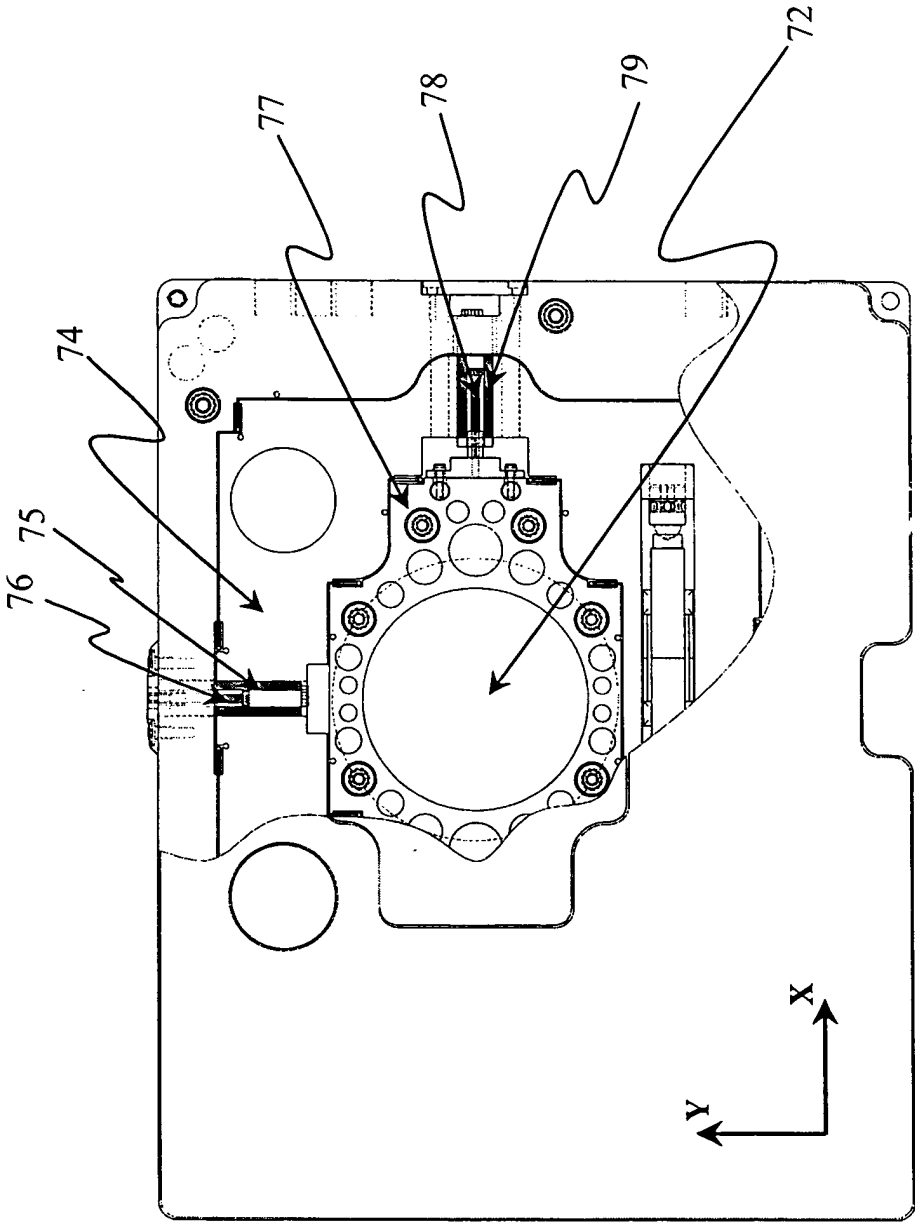


FIG. 20

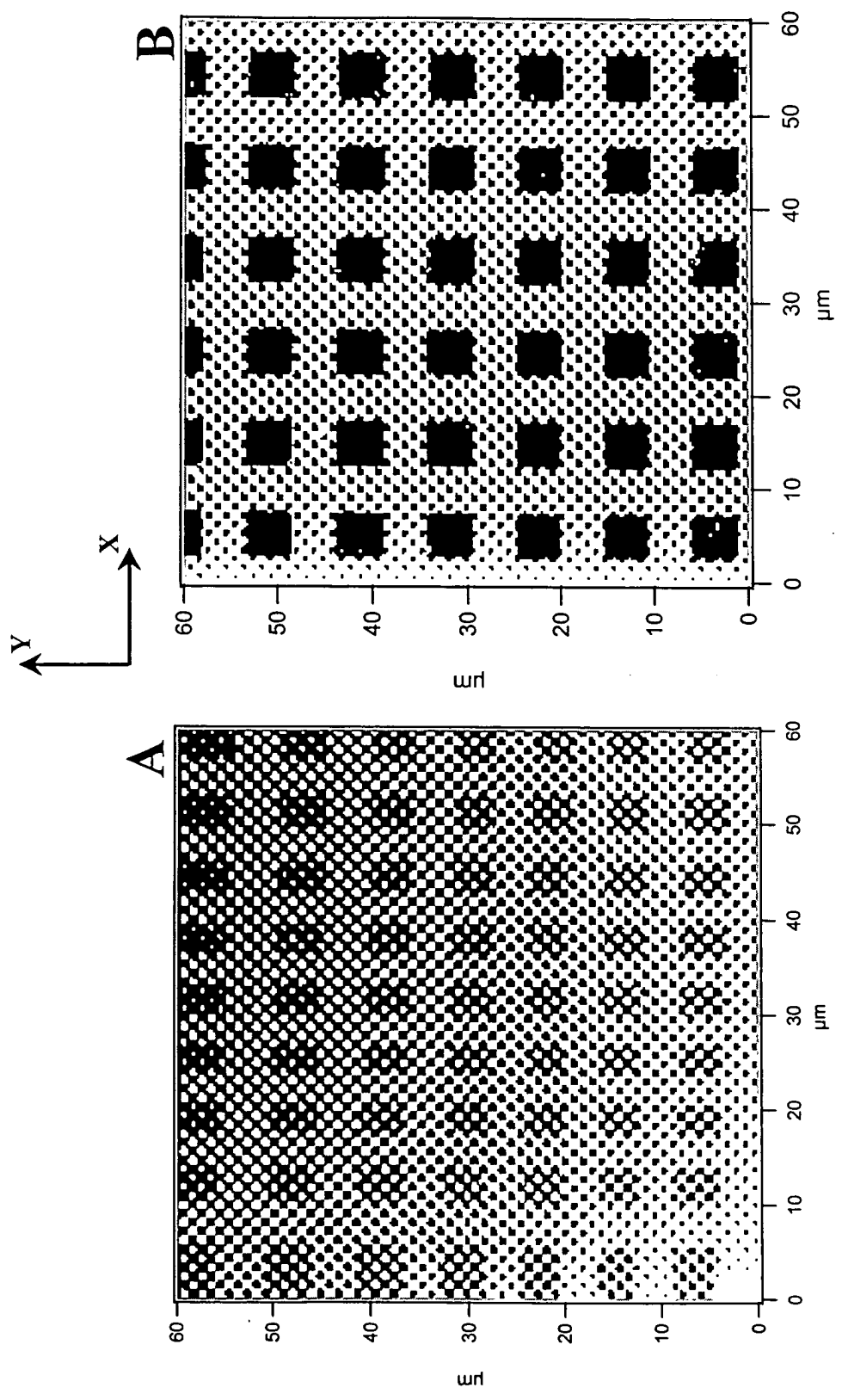


FIG. 21